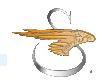
Expeditionary Warfare Conference Panama City, Florida

October 30, 2001



John D. Wakefield
Vice President
Maritime Helicopter Product Line
jwakefield @ sikorsky.com
203-386-3526



As a proud supplier to all who serve,











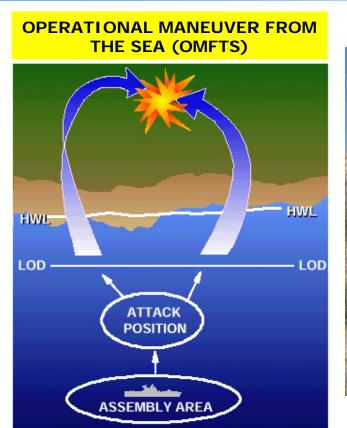


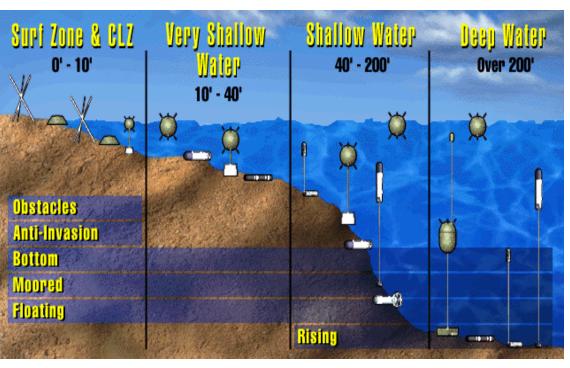
Sikorsky salutes and wishes them success!

Future Expeditionary Warfare

Two areas of Challenges







Enabling Expeditionary Assault Support and Logistics at 200 nm

Improving Naval Mine Warfare



Enabling Expeditionary Assault Support and Logistics

OPERATIONAL MANEUVER FROM THE SEA (OMFTS) HIWL LOD ATTACK POSITION

- Focus on Operational Objective Combat Radius ~200 nm
- Use the Sea as Maneuver Space
- Integration of organic, joint and combined assets



- Shipboard Compatible
- Operate from Prepared and Unprepared Surfaces
- Increased Payload Capability
- Increased Range and Flexibility
- Improved Cargo Handling Capability
- Compatible with Digital Battlefield



CH-53E Modernization







CH-53E Modernization

Affordable upgrades with assault support commonality

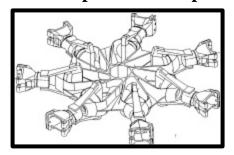




Common Modern Cockpit

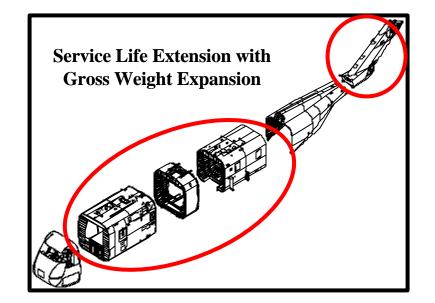


Composite Rotor Blade w/swept anhedral tip



Elastomeric Rotorhead







Common Engine System



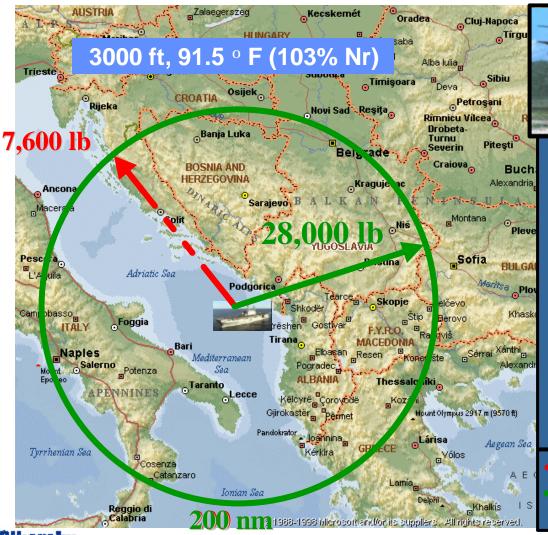
Improved External Cargo Handling System



Modernized CH-53E

Enables OMFTS







Increased VTOL Lift Capability

LAV or Howitzer
w/ammunition
Carried for 200 nm
Combat Radius

Accomplished with:

- >> Existing Drivetrain
- >> No T/R Changes
- >> Expanded GW
- >> External Load w/100 ft² drag





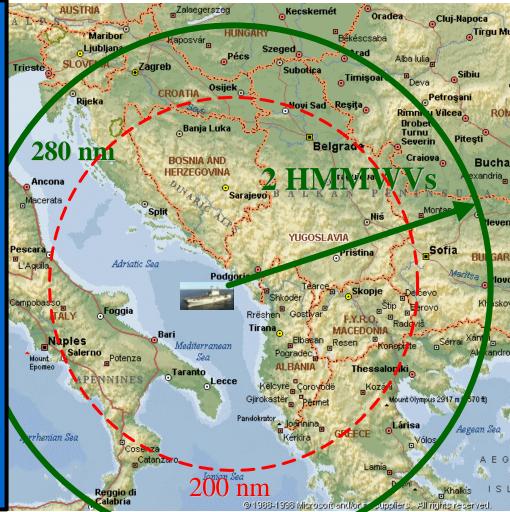
Modernized CH-53E

Enables OMFTS





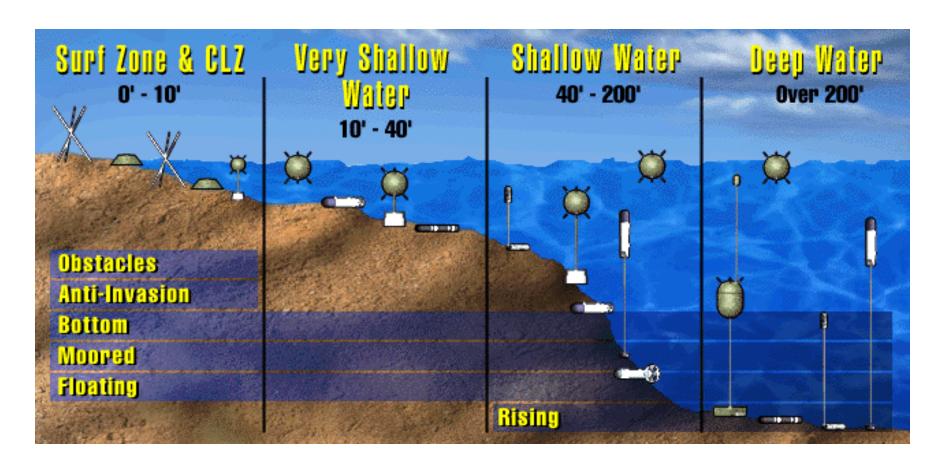
CH-53X Carries Two HMMWVs 280 nm Combat Radius!





Naval Mine Threat/Environment







Today

Dedicated Mine Warfare



Surface Ships



MCM Ships MHC ships MCS-12 (Inchon)

EOD



MCM detachments MMS detachments VSW detachment MINERON ONE MINERON TWO MINERON THREE

AMCM



HM-14 HM-15



Tomorrow

Dedicated and Organic Mine Warfare



MH-53E and MH-60S AMCM Platforms

Surface Ships



MCM Ships MHC ships MCS-12 (Inchon)

EOD



MINERON ONE MINERON TWO MINERON THREE

AMCM



HM-14 HM-15



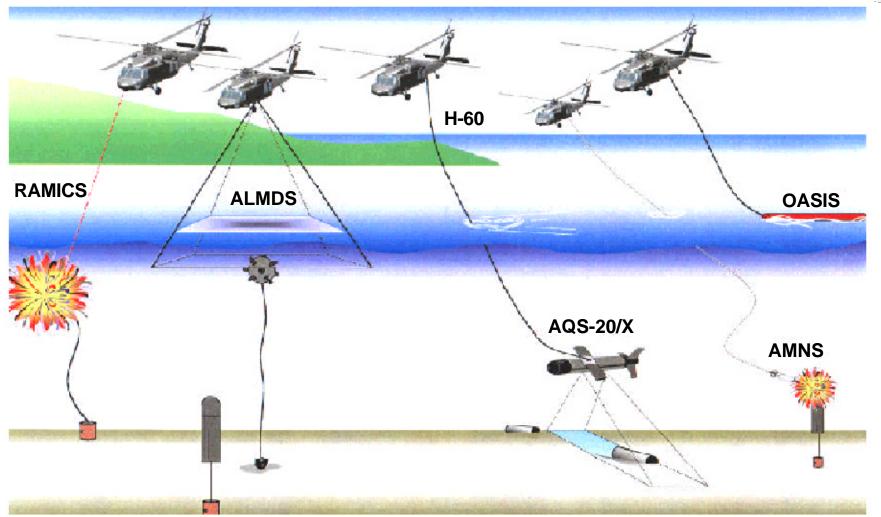
Organic AMCM

MCM detachments MMS detachments VSW detachment



Organic Airborne Mine Countermeasures







Full Government and Industry Team



Procuring Agencies







MH-60S Platform Integrator





Sensor Development













Organic Airborne Mine Countermeasures

Acronyms

- AN/AQS-20 Sonar Mine Detection Set
- AN/AES-1 (ALMDS) Airborne Laser Mine Detection System
- AMNS Airborne Mine Neutralization System
- AN/WSS-1 (OASIS) Organic Airborne and Surface Influence Sweep
- RAMICS Rapid Airborne Mine Clearance System

